



Excelitas Technologies Celebrates 20 Years of Continuous, Failure-Free Operations of its Rubidium Atomic Frequency Standard (RAFS) Aboard On-Orbit GPS-IIR Satellite

WALTHAM, MA., August 11, 2017 – [Excelitas Technologies](#), a global provider of innovative, customized high-performance optoelectronic solutions, reached a major milestone today, the celebration of 20 years of continuous, reliable, failure-free on-orbit operation of its [Rubidium Atomic Frequency Standard](#) (RAFS) aboard one of the U.S. Air Force’s Global Positioning System (GPS) satellites.

Excelitas’ RAFS technology was launched into orbit aboard the Air Force’s first GPS IIR satellite on July 23, 1997 and remotely activated on August 13, 1997. The RAFS is a critical part of each Harris Corporation navigation payload that sends the signal on every Lockheed Martin-produced GPS IIR, GPS IIR-M and next-generation GPS III satellite.

On orbit today, 12 GPS IIR and seven GPS IIR-M satellites with Excelitas RAFS – more than 60 percent of the current GPS constellation – have collectively amassed more than 250 operational years of performance. The first GPS III satellite with an Excelitas RAFS aboard is expected to launch in 2018.

“Achieving this 20-year IIR satellite milestone, and the GPS constellation’s continued good health, emphasize Excelitas’ continued long-term leadership in space-qualified and military tactical time frequency standards,” said Doug Benner, Executive Vice President of Excelitas’ Defense and Aerospace. “We are proud of our contribution to these global positioning, navigation and timing systems and we look forward to continuing this legacy for many years to come.”

“Excelitas’ high reliability RAFS technology was developed specifically for mission critical space applications,” John Vaccaro, Technical Director of RAFS Systems, Excelitas Technologies stated. “We have built over 125 atomic standards with world class stability and low drift combined with the small size, low weight, and power advantages. The Excelitas RAFS is recognized as an enabling technology for global positioning systems.”

The Company’s current RAFS programs include the GPS Block IIR/IIR-M, the Block IIF, and the new GPS Block III, which incorporates leading-edge technology to enhance space-borne position, navigation, and timing services for military, civil, and commercial use.

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About Excelitas Technologies

Excelitas Technologies Corp. is a global technology leader focused on delivering innovative, high-performance, market-driven photonic solutions to meet the lighting, detection and optical technology needs of global customers. From biomedical technology to research laboratory, safety and security, consumer products, semiconductor, energy and environment, industrial sensing & imaging, defense and aerospace, Excelitas Technologies is committed to enabling our customers’ success in their end-markets. Excelitas Technologies acquired Qioptiq in 2013



and now has approximately 5,500 employees in North America, Europe and Asia, serving customers across the world. Connect with Excelitas on [Facebook](#), [LinkedIn](#) and [Twitter](#).

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